
9 – General Health and Wellbeing

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9.1 SELF-REPORTED SYMPTOMS

Appendix 9A : Rank of all self-reported symptoms according to chi-square analysis

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Loss of concentration	164	34	221	38	438	69	1710	6	178.83
Forgetfulness	198	41	259	44	472	74	1711	5	164.51
Difficulty finding the right word	203	42	267	45	448	71	1711	5	117.38
Irritability / outbursts of anger	224	46	255	43	436	69	1708	8	95.58
Feeling disorientated	37	7.6	41	7.0	151	24	1707	9	94.05
Feeling jumpy / easily startled	106	22	106	18	258	41	1709	7	89.93
Feeling distant or cut of from others	102	21	108	18	250	39	1709	7	81.78
Dizziness	73	15	93	16	207	33	1709	7	68.81
Rash or skin irritation	145	30	196	33	328	52	1709	7	68.38
Feeling unsteady walking in the dark	41	8.5	50	8.5	142	22	1707	9	66.22

Appendix 9A continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Avoiding doing things or situations	151	31	178	30	316	50	1707	9	63.17
Nausea	49	10	40	6.8	131	21	1708	8	57.40
Itchy or painful eyes	141	29	192	33	311	49	1708	8	56.79
Loss of interest in sex	106	22	127	22	243	39	1703	13	55.52
Loss of balance or coordination	54	11	59	10	151	24	1707	9	54.79
Problems with sexual functioning	93	19	91	15	201	32	1701	15	52.02
Fatigue	294	60	324	55	469	74	1709	7	51.08
Difficulty feeling pain, cuts or injuries	12	2.5	12	2.0	64	10	1708	8	50.91
Numbness/prickling sensation-feet, legs	117	24	126	21	243	39	1707	9	50.57
Difficulty speaking	25	5.2	30	5.1	96	15	1706	10	50.25
Increased sensitivity to noise	86	18	87	15	192	30	1710	6	49.75
Ringing in the ears	153	32	211	36	321	51	1709	7	49.21
Feeling unsteady walking-uneven ground	54	11	39	6.6	124	20	1709	7	48.02
Sleeping difficulties	257	53	300	51	437	69	1711	5	48.00
Feeling unrefreshed after sleep	293	60	332	56	471	74	1711	5	47.38

Appendix 9A continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Chest pain	73	15	88	15	182	29	1707	9	46.97
increased sensitivity to smells or odours	36	7.4	26	4.4	97	15	1709	7	46.28
Shortness of breath	135	28	136	23	255	40	1708	8	44.61
Flatulence or burping	223	46	261	44	390	62	1710	6	43.87
Increased sensitivity to light	57	12	75	13	156	25	1708	8	43.63
Distressing dreams	99	20	76	13	177	28	1705	11	43.07
Difficulty lifting above head	73	15	68	12	160	25	1709	7	42.94
Headaches	285	59	318	54	454	71	1711	5	42.71
Pain-no swelling or redness- several joints	183	38	218	37	338	53	1708	8	42.13
Problems with tripping/slapping feet	36	7.4	43	7.3	109	17	1708	8	40.13
Feeling you may fall due to unsteadiness	35	7.2	26	4.4	91	14	1706	10	40.07
Feeling faint or fainting when standing	62	13	74	13	155	25	1709	7	39.92
Difficulty undoing buttons	15	3.1	22	3.7	70	11	1710	6	39.68
Stomach cramps	73	15	85	14	171	27	1710	6	38.82
Numbness/prickling sensation-hand/arms	135	28	173	29	271	43	1710	6	36.71

Appendix 9A continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Loss of, or decrease in, appetite	58	12	37	6.3	111	18	1709	7	36.66
Difficulty getting out of chair or off lounge	97	20	103	17	196	31	1708	8	35.77
Passing urine more often	73	15	83	14	165	26	1706	10	35.12
Dry mouth	107	22	126	21	219	34	1710	6	33.76
Unusual sensitivity / tenderness of skin	37	7.6	34	5.8	95	15	1709	7	33.40
Difficulty swallowing food	13	2.7	19	3.2	58	9.2	1710	6	30.81
Feeling feverish	41	8.5	66	11	119	19	1708	8	29.08
Stiffness in several joints	209	43	246	42	352	56	1711	5	28.92
Burning, aching pain tender hands/arms	55	11	54	9.1	121	19	1708	8	28.88
Sore throat	83	17	133	23	194	31	1711	5	28.54
General muscle aches or pains	250	51	311	53	412	65	1710	6	27.62
Rapid, pounding or irregular heartbeat	72	15	90	15	156	25	1703	13	24.20
Indigestion	146	30	170	29	259	41	1709	7	23.61
Night sweats which soak the bed sheets	60	12	92	16	145	23	1708	8	23.44
Difficulty turning doorknobs-unscrewing	27	5.6	28	4.7	72	11	1709	7	22.99

Appendix 9A continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Diarrhoea	100	20	120	20	193	30	1709	7	21.94
Tender or painful swelling of lymph glands	30	6.2	41	6.9	84	13	1709	7	21.69
Difficulty recognising hot from cold water	2	0.4	3	0.5	21	3.3	1708	8	21.64
Double vision	36	7.4	42	7.1	90	14	1707	9	21.41
Constipation	45	9.3	53	9.0	102	16	1708	8	18.71
Toothache	91	19	72	12	136	21	1710	6	18.62
Low back pain	258	53	323	55	408	64	1711	5	18.54
Wheezing	82	17	89	15	154	24	1706	10	18.29
Burning, aching pain tender feet/legs	92	19	94	16	161	25	1708	8	17.97
Loss of control over bladder or bowels	19	3.9	22	3.7	50	7.9	1706	10	13.23
Persistent cough	92	19	88	15	143	23	1709	7	11.45
Bleeding during bowel movements	47	9.7	68	12	100	16	1705	11	10.18
Unintended weight loss > 4kg	18	3.7	8	1.4	25	4.0	1698	18	8.30
Vomiting	23	4.8	17	2.9	40	6.3	1707	9	8.16
Pain on passing urine	13	2.7	10	1.7	28	4.4	1707	9	8.11
Mouth ulcers	74	15	74	13	117	18	1708	8	8.06

Appendix 9A continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Skin ulcers	23	4.7	21	3.6	45	7.1	1707	9	8.04
Unintended weight gain > 4kg	60	12	53	9.0	88	14	1706	10	7.56
Any new lump(s) in the breast area	2	0.4	9	1.5	4	0.6	1703	13	4.56
Seizures or convulsions	3	0.6	1	0.2	6	0.9	1709	7	3.16
Blackouts	5	1.0	5	0.8	12	1.9	1710	6	2.96
Any change to the skin of nipple/breast	2	0.4	3	0.5	7	1.1	1701	15	2.32
Fainting	5	1.0	4	0.7	8	1.3	1710	6	1.06
Sticky/bloody discharge-one/both nipple	0	0.0	1	0.2	1	0.2	1702	14	0.80
Unusual increase in the size of one breast	1	0.2	3	0.5	2	0.3	1701	15	0.75

Appendix 9B : Rank of Amberley comparison self-reported symptoms according to frequency

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Fatigue	294	60	324	55	469	74	1709	7	51.08
Feeling unrefreshed after sleep	293	60	332	56	471	74	1711	5	47.38
Headaches	285	59	318	54	454	71	1711	5	42.71
Low back pain	258	53	323	55	408	64	1711	5	18.54
Sleeping difficulties	257	53	300	51	437	69	1711	5	48.00
General muscle aches or pains	250	51	311	53	412	65	1710	6	27.62
Irritability / outbursts of anger	224	46	255	43	436	69	1708	8	95.58
Flatulence or burping	223	46	261	44	390	62	1710	6	43.87
Stiffness in several joints	209	43	246	42	352	56	1711	5	28.92
Difficulty finding the right word	203	42	267	45	448	71	1711	5	117.38
Forgetfulness	198	41	259	44	472	74	1711	5	164.51
Pain-no swelling or redness-several joints	183	38	218	37	338	53	1708	8	42.13
Loss of concentration	164	34	221	38	438	69	1710	6	178.83
Ringing in the ears	153	32	211	36	321	51	1709	7	49.21

Appendix 9B continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Avoiding doing things or situations	151	31	178	30	316	50	1707	9	63.17
Indigestion	146	30	170	29	259	41	1709	7	23.61
Rash or skin irritation	145	30	196	33	328	52	1709	7	68.38
Itchy or painful eyes	141	29	192	33	311	49	1708	8	56.79
Shortness of breath	135	28	136	23	255	40	1708	8	44.61
Numbness/prickling sensation-hand/arms	135	28	173	29	271	43	1710	6	36.71
Numbness/prickling sensation-feet, legs	117	24	126	21	243	39	1707	9	50.57
Dry mouth	107	22	126	21	219	34	1710	6	33.76
Loss of interest in sex	106	22	127	22	243	39	1703	13	55.52
Feeling jumpy / easily startled	106	22	106	18	258	41	1709	7	89.93
Feeling distant or cut of from others	102	21	108	18	250	39	1709	7	81.78
Diarrhoea	100	20	120	20	193	30	1709	7	21.94
Distressing dreams	99	20	76	13	177	28	1705	11	43.07
Difficulty getting out of chair or off lounge	97	20	103	17	196	31	1708	8	35.77
Problems with sexual functioning	93	19	91	15	201	32	1701	15	52.02

Appendix 9B continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Persistent cough	92	19	88	15	143	23	1709	7	11.45
Burning, aching pain tender feet/legs	92	19	94	16	161	25	1708	8	17.97
Toothache	91	19	72	12	136	21	1710	6	18.62
Increased sensitivity to noise	86	18	87	15	192	30	1710	6	49.75
Sore throat	83	17	133	23	194	31	1711	5	28.54
Wheezing	82	17	89	15	154	24	1706	10	18.29
Mouth ulcers	74	15	74	13	117	18	1708	8	8.06
Passing urine more often	73	15	83	14	165	26	1706	10	35.12
Dizziness	73	15	93	16	207	33	1709	7	68.81
Chest pain	73	15	88	15	182	29	1707	9	46.97
Difficulty lifting above head	73	15	68	12	160	25	1709	7	42.94
Stomach cramps	73	15	85	14	171	27	1710	6	38.82
Rapid, pounding or irregular heartbeat	72	15	90	15	156	25	1703	13	24.20
Feeling faint or fainting when standing	62	13	74	13	155	25	1709	7	39.92
Night sweats which soak the bed sheets	60	12	92	16	145	23	1708	8	23.44
Unintended weight gain > 4kg	60	12	53	9.0	88	14	1706	10	7.56

Appendix 9B continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Loss of, or decrease in, appetite	58	12	37	6.3	111	18	1709	7	36.66
Increased sensitivity to light	57	12	75	13	156	25	1708	8	43.63
Burning, aching pain tender hands/arms	55	11	54	9.1	121	19	1708	8	28.88
Loss of balance or coordination	54	11	59	10	151	24	1707	9	54.79
Feeling unsteady walking-uneven ground	54	11	39	6.6	124	20	1709	7	48.02
Nausea	49	10	40	6.8	131	21	1708	8	57.40
Bleeding during bowel movements	47	9.7	68	12	100	16	1705	11	10.18
Constipation	45	9.3	53	9.0	102	16	1708	8	18.71
Feeling unsteady walking in the dark	41	8.5	50	8.5	142	22	1707	9	66.22
Feeling feverish	41	8.5	66	11	119	19	1708	8	29.08
Feeling disorientated	37	7.6	41	7.0	151	24	1707	9	94.05
Unusual sensitivity/tenderness of skin	37	7.6	34	5.8	95	15	1709	7	33.40
Double vision	36	7.4	42	7.1	90	14	1707	9	21.41
increased sensitivity to smells or odours	36	7.4	26	4.4	97	15	1709	7	46.28

Appendix 9B continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Problems with tripping/slapping feet	36	7.4	43	7.3	109	17	1708	8	40.13
Feeling you may fall due to unsteadiness	35	7.2	26	4.4	91	14	1706	10	40.07
Tender or painful swelling of lymph glands	30	6.2	41	6.9	84	13	1709	7	21.69
Difficulty turning doorknobs-unscrewing	27	5.6	28	4.7	72	11	1709	7	22.99
Difficulty speaking	25	5.2	30	5.1	96	15	1706	10	50.25
Vomiting	23	4.8	17	2.9	40	6.3	1707	9	8.16
Skin ulcers	23	4.7	21	3.6	45	7.1	1707	9	8.04
Loss of control over bladder or bowels	19	3.9	22	3.7	50	7.9	1706	10	13.23
Unintended weight loss > 4kg	18	3.7	8	1.4	25	4.0	1698	18	8.30
Difficulty undoing buttons	15	3.1	22	3.7	70	11	1710	6	39.68
Pain on passing urine	13	2.7	10	1.7	28	4.4	1707	9	8.11
Difficulty swallowing food	13	2.7	19	3.2	58	9.2	1710	6	30.81
Difficulty feeling pain, cuts or injuries	12	2.5	12	2.0	64	10	1708	8	50.91
Blackouts	5	1.0	5	0.8	12	1.9	1710	6	2.96
Fainting	5	1.0	4	0.7	8	1.3	1710	6	1.06

Appendix 9B continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Seizures or convulsions	3	0.6	1	0.2	6	0.9	1709	7	3.16
Any change to the skin of nipple/breast	2	0.4	3	0.5	7	1.1	1701	15	2.32
Any new lump(s) in the breast area	2	0.4	9	1.5	4	0.6	1703	13	4.56
Difficulty recognising hot from cold water	2	0.4	3	0.5	21	3.3	1708	8	21.64
Unusual increase in the size of one breast	1	0.2	3	0.5	2	0.3	1701	15	0.75
Sticky/bloody discharge-one/both nipple	0	0.0	1	0.2	1	0.2	1702	14	0.80

Appendix 9C : Rank of Richmond comparison self-reported symptoms according to frequency

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Feeling unrefreshed after sleep	293	60	332	56	471	74	1711	5	47.38
Fatigue	294	60	324	55	469	74	1709	7	51.08
Low back pain	258	53	323	55	408	64	1711	5	18.54
Headaches	285	59	318	54	454	71	1711	5	42.71
General muscle aches or pains	250	51	311	53	412	65	1710	6	27.62
Sleeping difficulties	257	53	300	51	437	69	1711	5	48.00
Difficulty finding the right word	203	42	267	45	448	71	1711	5	117.38
Flatulence or burping	223	46	261	44	390	62	1710	6	43.87
Forgetfulness	198	41	259	44	472	74	1711	5	164.51
Irritability / outbursts of anger	224	46	255	43	436	69	1708	8	95.58
Stiffness in several joints	209	43	246	42	352	56	1711	5	28.92
Loss of concentration	164	34	221	38	438	69	1710	6	178.83
Pain-no swelling or redness-several joints	183	38	218	37	338	53	1708	8	42.13
Ringing in the ears	153	32	211	36	321	51	1709	7	49.21

Appendix 9C continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Rash or skin irritation	145	30	196	33	328	52	1709	7	68.38
Itchy or painful eyes	141	29	192	33	311	49	1708	8	56.79
Avoiding doing things or situations	151	31	178	30	316	50	1707	9	63.17
Numbness/prickling sensation-hand/arms	135	28	173	29	271	43	1710	6	36.71
Indigestion	146	30	170	29	259	41	1709	7	23.61
Shortness of breath	135	28	136	23	255	40	1708	8	44.61
Sore throat	83	17	133	23	194	31	1711	5	28.54
Loss of interest in sex	106	22	127	22	243	39	1703	13	55.52
Dry mouth	107	22	126	21	219	34	1710	6	33.76
Numbness/prickling sensation-feet, legs	117	24	126	21	243	39	1707	9	50.57
Diarrhoea	100	20	120	20	193	30	1709	7	21.94
Feeling distant or cut of from others	102	21	108	18	250	39	1709	7	81.78
Feeling jumpy / easily startled	106	22	106	18	258	41	1709	7	89.93
Difficulty getting out of chair or off	97	20	103	17	196	31	1708	8	35.77
Burning, aching pain tender feet/legs	92	19	94	16	161	25	1708	8	17.97

Appendix 9C continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Dizziness	73	15	93	16	207	33	1709	7	68.81
Night sweats which soak the bed sheets	60	12	92	16	145	23	1708	8	23.44
Problems with sexual functioning	93	19	91	15	201	32	1701	15	52.02
Rapid, pounding or irregular heartbeat	72	15	90	15	156	25	1703	13	24.20
Wheezing	82	17	89	15	154	24	1706	10	18.29
Chest pain	73	15	88	15	182	29	1707	9	46.97
Persistent cough	92	19	88	15	143	23	1709	7	11.45
Increased sensitivity to noise	86	18	87	15	192	30	1710	6	49.75
Stomach cramps	73	15	85	14	171	27	1710	6	38.82
Passing urine more often	73	15	83	14	165	26	1706	10	35.12
Distressing dreams	99	20	76	13	177	28	1705	11	43.07
Increased sensitivity to light	57	12	75	13	156	25	1708	8	43.63
Mouth ulcers	74	15	74	13	117	18	1708	8	8.06
Feeling faint or fainting when standing	62	13	74	13	155	25	1709	7	39.92
Toothache	91	19	72	12	136	21	1710	6	18.62
Difficulty lifting above head	73	15	68	12	160	25	1709	7	42.94

Appendix 9C continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Bleeding during bowel movements	47	9.7	68	12	100	16	1705	11	10.18
Feeling feverish	41	8.5	66	11	119	19	1708	8	29.08
Loss of balance or coordination	54	11	59	10	151	24	1707	9	54.79
Burning, aching pain tender hands/arms	55	11	54	9.1	121	19	1708	8	28.88
Constipation	45	9.3	53	9.0	102	16	1708	8	18.71
Unintended weight gain > 4kg	60	12	53	9.0	88	14	1706	10	7.56
Feeling unsteady walking in the dark	41	8.5	50	8.5	142	22	1707	9	66.22
Problems with tripping/slapping feet	36	7.4	43	7.3	109	17	1708	8	40.13
Double vision	36	7.4	42	7.1	90	14	1707	9	21.41
Feeling disorientated	37	7.6	41	7.0	151	24	1707	9	94.05
Tender or painful swelling of lymph glands	30	6.2	41	6.9	84	13	1709	7	21.69
Nausea	49	10	40	6.8	131	21	1708	8	57.40
Feeling unsteady walking-uneven ground	54	11	39	6.6	124	20	1709	7	48.02

Appendix 9C continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Loss of, or decrease in, appetite	58	12	37	6.3	111	18	1709	7	36.66
Unusual sensitivity/tenderness of skin	37	7.6	34	5.8	95	15	1709	7	33.40
Difficulty speaking	25	5.2	30	5.1	96	15	1706	10	50.25
Difficulty turning doorknobs-unscrewing	27	5.6	28	4.7	72	11	1709	7	22.99
Feeling you may fall due to unsteadiness	35	7.2	26	4.4	91	14	1706	10	40.07
increased sensitivity to smells or odours	36	7.4	26	4.4	97	15	1709	7	46.28
Loss of control over bladder or bowels	19	3.9	22	3.7	50	7.9	1706	10	13.23
Difficulty undoing buttons	15	3.1	22	3.7	70	11	1710	6	39.68
Skin ulcers	23	4.7	21	3.6	45	7.1	1707	9	8.04
Difficulty swallowing food	13	2.7	19	3.2	58	9.2	1710	6	30.81
Vomiting	23	4.8	17	2.9	40	6.3	1707	9	8.16
Difficulty feeling pain, cuts or injuries	12	2.5	12	2.0	64	10	1708	8	50.91
Pain on passing urine	13	2.7	10	1.7	28	4.4	1707	9	8.11
Any new lump(s) in the breast area	2	0.4	9	1.5	4	0.6	1703	13	4.56

Appendix 9C continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Unintended weight loss > 4kg	18	3.7	8	1.4	25	4.0	1698	18	8.30
Blackouts	5	1.0	5	0.8	12	1.9	1710	6	2.96
Fainting	5	1.0	4	0.7	8	1.3	1710	6	1.06
Any change to the skin of nipple/breast	2	0.4	3	0.5	7	1.1	1701	15	2.32
Unusual increase in the size of one breast	1	0.2	3	0.5	2	0.3	1701	15	0.75
Difficulty recognising hot from cold water	2	0.4	3	0.5	21	3.3	1708	8	21.64
Sticky/bloody discharge-one/both nipple	0	0.0	1	0.2	1	0.2	1702	14	0.80
Seizures or convulsions	3	0.6	1	0.2	6	0.9	1709	7	3.16

Appendix 9D : Rank of exposed self-reported symptoms according to frequency

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Forgetfulness	198	41	259	44	472	74	1711	5	164.51
Feeling unrefreshed after sleep	293	60	332	56	471	74	1711	5	47.38
Fatigue	294	60	324	55	469	74	1709	7	51.08
Headaches	285	59	318	54	454	71	1711	5	42.71
Difficulty finding the right word	203	42	267	45	448	71	1711	5	117.38
Loss of concentration	164	34	221	38	438	69	1710	6	178.83
Irritability / outbursts of anger	224	46	255	43	436	69	1708	8	95.58
Sleeping difficulties	257	53	300	51	437	69	1711	5	48.00
General muscle aches or pains	250	51	311	53	412	65	1710	6	27.62
Low back pain	258	53	323	55	408	64	1711	5	18.54
Flatulence or burping	223	46	261	44	390	62	1710	6	43.87
Stiffness in several joints	209	43	246	42	352	56	1711	5	28.92
Pain-no swelling or redness-several joints	183	38	218	37	338	53	1708	8	42.13
Rash or skin irritation	145	30	196	33	328	52	1709	7	68.38

Appendix 9D continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Ringing in the ears	153	32	211	36	321	51	1709	7	49.21
Avoiding doing things or situations	151	31	178	30	316	50	1707	9	63.17
Itchy or painful eyes	141	29	192	33	311	49	1708	8	56.79
Numbness/prickling sensation-hand/arms	135	28	173	29	271	43	1710	6	36.71
Indigestion	146	30	170	29	259	41	1709	7	23.61
Feeling jumpy / easily startled	106	22	106	18	258	41	1709	7	89.93
Shortness of breath	135	28	136	23	255	40	1708	8	44.61
Feeling distant or cut of from others	102	21	108	18	250	39	1709	7	81.78
Loss of interest in sex	106	22	127	22	243	39	1703	13	55.52
Numbness/prickling sensation-feet, legs	117	24	126	21	243	39	1707	9	50.57
Dry mouth	107	22	126	21	219	34	1710	6	33.76
Dizziness	73	15	93	16	207	33	1709	7	68.81
Problems with sexual functioning	93	19	91	15	201	32	1701	15	52.02
Difficulty getting out of chair	97	20	103	17	196	31	1708	8	35.77
Sore throat	83	17	133	23	194	31	1711	5	28.54
Diarrhoea	100	20	120	20	193	30	1709	7	21.94

Appendix 9D continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Increased sensitivity to noise	86	18	87	15	192	30	1710	6	49.75
Chest pain	73	15	88	15	182	29	1707	9	46.97
Distressing dreams	99	20	76	13	177	28	1705	11	43.07
Stomach cramps	73	15	85	14	171	27	1710	6	38.82
Passing urine more often	73	15	83	14	165	26	1706	10	35.12
Burning, aching pain tender feet/legs	92	19	94	16	161	25	1708	8	17.97
Difficulty lifting above head	73	15	68	12	160	25	1709	7	42.94
Rapid, pounding or irregular heartbeat	72	15	90	15	156	25	1703	13	24.20
Increased sensitivity to light	57	12	75	13	156	25	1708	8	43.63
Feeling faint or fainting when standing	62	13	74	13	155	25	1709	7	39.92
Wheezing	82	17	89	15	154	24	1706	10	18.29
Loss of balance or coordination	54	11	59	10	151	24	1707	9	54.79
Feeling disorientated	37	7.6	41	7.0	151	24	1707	9	94.05
Night sweats which soak the bed sheets	60	12	92	16	145	23	1708	8	23.44
Persistent cough	92	19	88	15	143	23	1709	7	11.45
Feeling unsteady walking in the dark	41	8.5	50	8.5	142	22	1707	9	66.22

Appendix 9D continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Toothache	91	19	72	12	136	21	1710	6	18.62
Nausea	49	10	40	6.8	131	21	1708	8	57.40
Feeling unsteady walking- uneven ground	54	11	39	6.6	124	20	1709	7	48.02
Burning, aching pain tender hands/arms	55	11	54	9.1	121	19	1708	8	28.88
Feeling feverish	41	8.5	66	11	119	19	1708	8	29.08
Mouth ulcers	74	15	74	13	117	18	1708	8	8.06
Loss of, or decrease in, appetite	58	12	37	6.3	111	18	1709	7	36.66
Problems with tripping/slapping feet	36	7.4	43	7.3	109	17	1708	8	40.13
Constipation	45	9.3	53	9.0	102	16	1708	8	18.71
Bleeding during bowel movements	47	9.7	68	12	100	16	1705	11	10.18
increased sensitivity to smells or odours	36	7.4	26	4.4	97	15	1709	7	46.28
Difficulty speaking	25	5.2	30	5.1	96	15	1706	10	50.25
Unusual sensitivity/tenderness of skin	37	7.6	34	5.8	95	15	1709	7	33.40
Feeling you may fall due to unsteadiness	35	7.2	26	4.4	91	14	1706	10	40.07

Appendix 9D continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Double vision	36	7.4	42	7.1	90	14	1707	9	21.41
Unintended weight gain > 4kg	60	12	53	9.0	88	14	1706	10	7.56
Tender or painful swelling of lymph glands	30	6.2	41	6.9	84	13	1709	7	21.69
Difficulty turning doorknobs-unscrewing	27	5.6	28	4.7	72	11	1709	7	22.99
Difficulty undoing buttons	15	3.1	22	3.7	70	11	1710	6	39.68
Difficulty feeling pain, cuts or injuries	12	2.5	12	2.0	64	10	1708	8	50.91
Difficulty swallowing food	13	2.7	19	3.2	58	9.2	1710	6	30.81
Loss of control over bladder or bowels	19	3.9	22	3.7	50	7.9	1706	10	13.23
Skin ulcers	23	4.7	21	3.6	45	7.1	1707	9	8.04
Vomiting	23	4.8	17	2.9	40	6.3	1707	9	8.16
Pain on passing urine	13	2.7	10	1.7	28	4.4	1707	9	8.11
Unintended weight loss > 4kg	18	3.7	8	1.4	25	4.0	1698	18	8.30
Difficulty recognising hot from cold water	2	0.4	3	0.5	21	3.3	1708	8	21.64
Blackouts	5	1.0	5	0.8	12	1.9	1710	6	2.96
Fainting	5	1.0	4	0.7	8	1.3	1710	6	1.06

Appendix 9D continued...

Item	Amberley N	Amberley %	Richmond N	Richmond %	Exposed N	Exposed %	Total N	No. Missing	Chi- Square
Any change to the skin of nipple/breast	2	0.4	3	0.5	7	1.1	1701	15	2.32
Seizures or convulsions	3	0.6	1	0.2	6	0.9	1709	7	3.16
Any new lump(s) in the breast area	2	0.4	9	1.5	4	0.6	1703	13	4.56
Unusual increase in the size of one breast	1	0.2	3	0.5	2	0.3	1701	15	0.75
Sticky/bloody discharge-one/both nipple	0	0.0	1	0.2	1	0.2	1702	14	0.80

9.2 SELF-REPORTED HOSPITALISATION

Appendix 9E : Self-reported hospitalisation in the past 12 months: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.93	0.65	1.33
Richmond vs Exposed	0.68	0.48	0.97
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.27	0.08	0.91
30-34yrs vs 60-64yrs	0.37	0.15	0.96
35-39yrs vs 60-64yrs	0.35	0.15	0.80
40-44yrs vs 60-64yrs	0.31	0.15	0.64
45-49yrs vs 60-64yrs	0.30	0.15	0.60
50-54yrs vs 60-64yrs	0.32	0.15	0.66
55-59yrs vs 60-64yrs	0.41	0.19	0.87
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.91	0.60	1.37
1985-1989 vs 1975-1979	0.64	0.39	1.07
1990-1994 vs 1975-1979	1.18	0.65	2.16
1995-1999 vs 1975-1979	0.89	0.39	2.05
RANK CATEGORY			
Civilian vs Enlisted	0.12	0.01	0.89
Non Comm Officer vs Enlisted	1.12	0.76	1.65
Officer vs Enlisted	1.62	0.72	3.62
Unknown vs Enlisted	0.57	0.16	2.09
SMOKER CATEGORY			
Current smoker vs Never smoked	1.03	0.68	1.56
Ex smoker vs Never smoked	0.97	0.69	1.36

Appendix 9E continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DRINKER CATEGORY			
Former Hazardous vs Safe Drinker	1.49	0.65	3.44
Hazardous Drinker vs Safe Drinker	1.06	0.76	1.49
Moderate vs Safe Drinker	0.91	0.61	1.37
B.M.I.			
Obese vs normal weight	1.31	0.86	1.99
Overweight vs normal weight	0.84	0.56	1.27

B.M.I. = Body Mass Index

Appendix 9F : Self-reported hospitalisation in the past 12 months: Most parsimonious model obtained by logistic regression for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	1.02	0.72	1.45
Richmond vs Exposed	0.73	0.51	1.03
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.30	0.12	0.78
30-34yrs vs 60-64yrs	0.33	0.16	0.68
35-39yrs vs 60-64yrs	0.31	0.16	0.61
40-44yrs vs 60-64yrs	0.29	0.15	0.57
45-49yrs vs 60-64yrs	0.30	0.15	0.58
50-54yrs vs 60-64yrs	0.33	0.16	0.67
55-59yrs vs 60-64yrs	0.46	0.22	0.96
B.M.I.			
Obese vs normal weight	1.31	0.87	1.98
Overweight vs normal weight	0.82	0.55	1.23

Appendix 9G : Self-reported hospitalisation in the past 12 months: Multiple logistic regression where the exposed group are all those in Program 1

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.91	0.58	1.42
Richmond vs Exposed	0.67	0.43	1.05
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.44	0.10	1.88
30-34yrs vs 60-64yrs	0.51	0.17	1.59
35-39yrs vs 60-64yrs	0.43	0.16	1.13
40-44yrs vs 60-64yrs	0.39	0.17	0.90
45-49yrs vs 60-64yrs	0.36	0.16	0.80
50-54yrs vs 60-64yrs	0.42	0.18	0.94
55-59yrs vs 60-64yrs	0.43	0.19	1.01
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.91	0.59	1.40
1985-1989 vs 1975-1979	0.58	0.31	1.07
1990-1994 vs 1975-1979	1.14	0.54	2.42
1995-1999 vs 1975-1979	1.15	0.43	3.07
RANK CATEGORY			
Civilian vs Enlisted	0.00	0.00	1
Non Comm Officer vs Enlisted	1.24	0.80	1.92
Officer vs Enlisted	1.92	0.77	4.76
Unknown vs Enlisted	0.27	0.03	2.11
SMOKER CATEGORY			
Current smoker vs Never smoked	1.05	0.66	1.66
Ex smoker vs Never smoked	0.83	0.56	1.22
DRINKER CATEGORY			
Former Hazardous vs Safe Drinker	1.83	0.73	4.55
Hazardous Drinker vs Safe Drinker	1.31	0.90	1.92
Moderate vs Safe Drinker	0.94	0.58	1.51
B.M.I.			
Obese vs normal weight	1.29	0.81	2.06
Overweight vs normal weight	0.80	0.50	1.27

Appendix 9H : Self-reported hospitalisation in the past 12 months: Multiple logistic regression where the exposed group are all those in Program 2

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.77	0.48	1.22
Richmond vs Exposed	0.55	0.35	0.89
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.53	0.13	2.23
30-34yrs vs 60-64yrs	0.62	0.19	1.97
35-39yrs vs 60-64yrs	0.54	0.19	1.56
40-44yrs vs 60-64yrs	0.56	0.21	1.47
45-49yrs vs 60-64yrs	0.43	0.17	1.10
50-54yrs vs 60-64yrs	0.57	0.22	1.51
55-59yrs vs 60-64yrs	0.72	0.27	1.96
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.77	0.47	1.26
1985-1989 vs 1975-1979	0.56	0.31	0.99
1990-1994 vs 1975-1979	0.96	0.48	1.90
1995-1999 vs 1975-1979	0.88	0.33	2.36
RANK CATEGORY			
Civilian vs Enlisted	0.13	0.02	1.07
Non Comm Officer vs Enlisted	1.08	0.69	1.69
Officer vs Enlisted	1.65	0.63	4.33
Unknown vs Enlisted	0.62	0.06	5.94
SMOKER CATEGORY			
Current smoker vs Never smoked	1.11	0.69	1.77
Ex smoker vs Never smoked	0.90	0.61	1.35
DRINKER CATEGORY			
Former Hazardous vs Safe Drinker	0.87	0.25	3.05
Hazardous Drinker vs Safe Drinker	1.13	0.76	1.67
Moderate vs Safe Drinker	1.13	0.71	1.80
B.M.I.			
Obese vs normal weight	1.40	0.85	2.29
Overweight vs normal weight	0.91	0.55	1.48

Appendix 9I : Self-reported hospitalisation in the past 12 months: Multiple logistic regression where exposed are classified by dose and contrasted to the unexposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
EXPOSURE			
Mild exposure vs Unexposed	0.74	0.43	1.28
Moderate exposure vs Unexposed	1.51	0.98	2.35
Prolonged exposure vs Unexposed	1.39	0.89	2.15
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.40	0.11	1.39
30-34yrs vs 60-64yrs	0.48	0.18	1.27
35-39yrs vs 60-64yrs	0.41	0.17	0.98
40-44yrs vs 60-64yrs	0.38	0.17	0.82
45-49yrs vs 60-64yrs	0.35	0.17	0.74
50-54yrs vs 60-64yrs	0.39	0.18	0.84
55-59yrs vs 60-64yrs	0.50	0.23	1.11
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.87	0.57	1.33
1985-1989 vs 1975-1979	0.64	0.38	1.07
1990-1994 vs 1975-1979	1.04	0.55	1.96
1995-1999 vs 1975-1979	0.81	0.34	1.95
RANK CATEGORY			
Civilian vs Enlisted	0.15	0.02	1.16
Non Comm Officer vs Enlisted	1.20	0.81	1.78
Officer vs Enlisted	1.67	0.72	3.87
Unknown vs Enlisted	0.49	0.11	2.27
SMOKER CATEGORY			
Current smoker vs Never smoked	1.06	0.70	1.62
Ex smoker vs Never smoked	0.90	0.63	1.28

Appendix 9I continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DRINKER CATEGORY			
Former Hazardous vs Safe Drinker	1.43	0.59	3.46
Hazardous Drinker vs Safe Drinker	1.10	0.77	1.56
Moderate vs Safe Drinker	0.96	0.63	1.46
B.M.I.			
Obese vs normal weight	1.19	0.78	1.83
Overweight vs normal weight	0.82	0.54	1.24

9.3 SELF-COMPLETE SF-36 QUALITY OF LIFE QUESTIONNAIRE

9.3.1 SF-36 PHYSICAL COMPONENT SUMMARY

Appendix 9J : SF-36 Physical Component Summary: Multiple linear regression summary for all exposed

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	45.87	42.38	49.35
GROUP			
Amberley	1.23	-0.31	2.77
Richmond	2.27	0.95	3.60
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	-0.65	-5.44	4.14
30-34yrs	-5.23	-9.14	-1.31
35-39yrs	-4.47	-8.09	-0.86
40-44yrs	-5.35	-8.68	-2.01
45-49yrs	-3.52	-6.74	-0.31
50-54yrs	-4.60	-7.91	-1.29
55-59yrs	-2.13	-5.68	1.41
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.81	-2.39	0.77
1985-1989	0.76	-1.03	2.54
1990-1994	-0.17	-2.47	2.14
1995-1999	1.42	-1.64	4.47
1975-1979 (reference)	0.00	.	.

Appendix 9J continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
RANK CATEGORY			
Civilian	2.06	-2.02	6.13
Non Comm Officer	0.66	-0.80	2.13
Officer	1.82	-1.65	5.29
Unknown	-0.83	-6.11	4.45
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-2.29	-5.77	1.19
Hazardous Drinker	-1.75	-3.02	-0.47
Moderate	-0.21	-1.69	1.27
Safe Drinker (reference)	0.00	.	.
SMOKER CATEGORY			
Current smoker	-1.11	-2.65	0.43
Ex smoker	0.46	-0.82	1.75
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	1.12	-0.24	2.47
Completed High School	-0.47	-2.48	1.54
Primary School or High School	-2.85	-5.08	-0.61
University Degree	0.97	-0.98	2.92
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	-0.69	-1.94	0.55
No OS exposure (reference)	0.00	.	.

OS = Organic Solvent

**Appendix 9K : SF-36 Physical Component Summary: Most parsimonious model
obtained by stepwise regression for all exposed**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	45.91	42.84	48.97
GROUP			
Amberley	1.36	-0.12	2.83
Richmond	2.44	1.16	3.71
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	0.07	-3.80	3.93
30-34yrs	-4.94	-8.22	-1.66
35-39yrs	-4.73	-7.87	-1.59
40-44yrs	-5.93	-8.98	-2.87
45-49yrs	-3.83	-6.91	-0.76
50-54yrs	-4.53	-7.76	-1.30
55-59yrs	-2.07	-5.55	1.40
> 60yrs (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-2.54	-5.98	0.91
Hazardous Drinker	-1.86	-3.10	-0.63
Moderate	-0.12	-1.58	1.34
Safe Drinker (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	1.39	0.06	2.73
Completed High School	-0.37	-2.33	1.58
Primary School or High School	-2.83	-5.00	-0.65
University Degree	1.39	-0.45	3.23
Trade/Apprentice (reference)	0.00	.	.

**Appendix 9L : SF-36 Physical Component Summary: Multiple linear regression
where the exposed group are all those in Program 1**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	45.82	41.97	49.67
GROUP			
Amberley	2.40	0.50	4.30
Richmond	3.25	1.58	4.92
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	-2.13	-7.92	3.66
30-34yrs	-7.01	-11.49	-2.52
35-39yrs	-6.15	-10.15	-2.15
40-44yrs	-5.87	-9.49	-2.24
45-49yrs	-4.08	-7.58	-0.59
50-54yrs	-4.77	-8.33	-1.21
55-59yrs	-2.74	-6.51	1.03
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-1.01	-2.66	0.63
1985-1989	0.50	-1.55	2.55
1990-1994	1.01	-1.79	3.80
1995-1999	1.01	-2.74	4.76
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	2.31	-8.88	13.50
Non Comm Officer	0.37	-1.25	1.99
Officer	3.06	-0.80	6.93
Unknown	-2.16	-8.08	3.75
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	0.12	-3.75	4.00
Hazardous Drinker	-1.89	-3.29	-0.49
Moderate	-0.52	-2.18	1.14
Safe Drinker (reference)	0.00	.	.

Appendix 9L continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	-1.49	-3.22	0.23
Ex smoker	0.08	-1.33	1.49
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	1.36	-0.17	2.89
Completed High School	-0.50	-2.69	1.70
Primary School or High School	-3.12	-5.51	-0.73
University Degree	0.90	-1.28	3.07
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	-0.12	-1.52	1.28
No OS exposure (reference)	0.00	.	.

**Appendix 9M : SF-36 Physical Component Summary: Multiple linear regression
where the exposed group are all those in Program 2**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	46.43	42.19	50.67
GROUP			
Amberley	1.58	-0.43	3.60
Richmond	2.36	0.54	4.18
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	-1.40	-6.95	4.15
30-34yrs	-6.52	-11.02	-2.02
35-39yrs	-5.31	-9.51	-1.11
40-44yrs	-6.42	-10.33	-2.51
45-49yrs	-4.28	-8.07	-0.49
50-54yrs	-5.39	-9.33	-1.46
55-59yrs	-2.54	-6.74	1.65
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.16	-2.00	1.69
1985-1989	0.78	-1.23	2.79
1990-1994	0.33	-2.26	2.92
1995-1999	1.04	-2.61	4.69
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	2.46	-2.25	7.18
Non Comm Officer	0.99	-0.67	2.65
Officer	2.57	-1.41	6.54
Unknown	4.64	-4.64	13.93
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-0.29	-4.46	3.89
Hazardous Drinker	-1.92	-3.36	-0.48
Moderate	-0.67	-2.36	1.02
Safe Drinker (reference)	0.00	.	.

Appendix 9M continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	-1.36	-3.11	0.39
Ex smoker	-0.13	-1.59	1.33
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	1.44	-0.14	3.01
Completed High School	-0.89	-3.08	1.30
Primary School or High School	-3.31	-5.85	-0.77
University Degree	1.19	-1.01	3.39
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	-0.11	-1.58	1.35
No OS exposure (reference)	0.00	.	.

**Appendix 9N : SF-36 Physical Component Summary: Multiple linear regression
where exposed are classified by dose and contrasted to the unexposed**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	48.04	44.49	51.60
EXPOSURE			
Mild exposure	-0.47	-2.38	1.43
Moderate exposure	-1.89	-3.72	-0.05
Prolonged exposure	-2.48	-4.25	-0.71
Unexposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	-0.80	-5.79	4.18
30-34yrs	-5.65	-9.69	-1.60
35-39yrs	-4.57	-8.28	-0.85
40-44yrs	-5.58	-9.02	-2.15
45-49yrs	-3.64	-6.95	-0.32
50-54yrs	-4.61	-8.01	-1.21
55-59yrs	-2.20	-5.84	1.44
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.88	-2.49	0.73
1985-1989	0.76	-1.07	2.58
1990-1994	-0.07	-2.47	2.33
1995-1999	1.55	-1.66	4.76
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	2.36	-2.19	6.91
Non Comm Officer	0.59	-0.92	2.09
Officer	1.76	-1.81	5.32
Unknown	-0.96	-6.53	4.61
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-1.52	-5.17	2.14
Hazardous Drinker	-1.64	-2.94	-0.34
Moderate	-0.29	-1.82	1.23
Safe Drinker (reference)	0.00	.	.

Appendix 9N continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	-1.37	-2.95	0.21
Ex smoker	0.29	-1.02	1.60
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	1.27	-0.11	2.66
Completed High School	-1.11	-3.03	0.80
Primary School or High School	-3.43	-5.61	-1.25
University Degree	0.85	-1.14	2.84
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	-0.61	-1.90	0.67
No OS exposure (reference)	0.00	.	.

9.3.2 SF-36 MENTAL COMPONENT SUMMARY

Appendix 90 : SF-36 Mental Component Summary: Multiple linear regression summary for all exposed

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	41.38	37.26	45.49
GROUP			
Amberley	7.22	5.40	9.04
Richmond	6.50	4.93	8.06
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	8.13	2.48	13.78
30-34yrs	7.06	2.44	11.68
35-39yrs	4.82	0.56	9.09
40-44yrs	4.86	0.92	8.79
45-49yrs	4.36	0.56	8.15
50-54yrs	1.43	-2.48	5.33
55-59yrs	-0.33	-4.52	3.85
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.49	-2.35	1.38
1985-1989	-0.59	-2.70	1.51
1990-1994	-0.91	-3.64	1.81
1995-1999	-3.09	-6.70	0.52
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	-1.48	-6.29	3.33
Non Comm Officer	0.99	-0.74	2.72
Officer	5.58	1.48	9.68
Unknown	-3.18	-9.41	3.05
Enlisted (reference)	0.00	.	.

Appendix 9O continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
DRINKER CATEGORY			
Former Hazardous	-6.01	-10.11	-1.90
Hazardous Drinker	-1.72	-3.22	-0.21
Moderate	0.80	-0.95	2.54
Safe Drinker (reference)	0.00	.	.
SMOKER CATEGORY			
Current smoker	-3.09	-4.91	-1.27
Ex smoker	-0.62	-2.14	0.90
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	-1.85	-3.45	-0.25
Completed High School	-2.08	-4.45	0.29
Primary School or High School	-1.53	-4.17	1.10
University Degree	-0.46	-2.77	1.84
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	0.58	-0.89	2.05
No OS exposure (reference)	0.00	.	.

**Appendix 9P : SF-36 Mental Component Summary: Most parsimonious model
obtained by stepwise regression for all exposed**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	41.28	37.43	45.13
GROUP			
Amberley	6.33	4.71	7.95
Richmond	6.45	4.91	7.99
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	5.60	0.94	10.26
30-34yrs	5.70	1.71	9.69
35-39yrs	3.80	-0.04	7.63
40-44yrs	4.04	0.33	7.75
45-49yrs	3.78	0.12	7.44
50-54yrs	1.14	-2.66	4.94
55-59yrs	-0.02	-4.10	4.05
> 60yrs (reference)	0.00	.	.
RANK CATEGORY			
Civilian	-2.20	-6.62	2.23
Non Comm Officer	0.24	-1.33	1.82
Officer	4.95	1.09	8.80
Unknown	-4.01	-9.93	1.91
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-5.95	-10.00	-1.90
Hazardous Drinker	-1.76	-3.25	-0.27
Moderate	0.58	-1.14	2.31
Safe Drinker (reference)	0.00	.	.
SMOKER CATEGORY			
Current smoker	-3.23	-5.02	-1.43
Ex smoker	-0.86	-2.36	0.63
Never smoked (reference)	0.00	.	.

**Appendix 9Q : SF-36 Mental Component Summary: Multiple linear regression
where the exposed group are all those in Program 1**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	39.57	35.06	44.08
GROUP			
Amberley	7.67	5.44	9.90
Richmond	7.25	5.30	9.21
Exposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	8.64	1.86	15.43
30-34yrs	8.03	2.78	13.29
35-39yrs	5.90	1.22	10.59
40-44yrs	5.79	1.54	10.04
45-49yrs	5.33	1.24	9.43
50-54yrs	2.56	-1.61	6.73
55-59yrs	0.77	-3.65	5.19
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.41	-2.34	1.52
1985-1989	-1.31	-3.71	1.09
1990-1994	-0.66	-3.93	2.62
1995-1999	-3.23	-7.62	1.16
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	10.79	-2.31	23.90
Non Comm Officer	0.23	-1.67	2.13
Officer	6.01	1.48	10.54
Unknown	-6.12	-13.05	0.80
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-5.06	-9.60	-0.52
Hazardous Drinker	-1.59	-3.22	0.05
Moderate	0.53	-1.41	2.47
Safe Drinker (reference)	0.00	.	.

Appendix 9Q continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	-3.02	-5.04	-1.00
Ex smoker	-0.06	-1.71	1.60
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	-1.71	-3.51	0.08
Completed High School	-0.98	-3.56	1.59
Primary School or High School	-1.42	-4.22	1.38
University Degree	0.46	-2.09	3.01
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	0.66	-0.98	2.29
No OS exposure (reference)	0.00	.	.

**Appendix 9R : SF-36 Mental Component Summary: Multiple linear regression
where the exposed group are all those in Program 2**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	44.22	39.37	49.07
GROUP			
Amberley	6.39	4.09	8.69
Richmond	5.70	3.62	7.79
Exposed	0.00	.	.
AGE CATEGORY			
< 29yrs	7.31	0.96	13.65
30-34yrs	4.28	-0.85	9.42
35-39yrs	3.29	-1.51	8.08
40-44yrs	3.52	-0.95	7.99
45-49yrs	3.22	-1.10	7.55
50-54yrs	0.38	-4.11	4.87
55-59yrs	-1.54	-6.33	3.26
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.63	-2.73	1.48
1985-1989	-0.49	-2.78	1.81
1990-1994	-0.91	-3.87	2.05
1995-1999	-2.94	-7.11	1.23
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	-2.64	-8.02	2.74
Non Comm Officer	0.40	-1.50	2.30
Officer	3.70	-0.84	8.25
Unknown	3.39	-7.21	14.00
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-3.75	-8.52	1.02
Hazardous Drinker	-1.41	-3.05	0.23
Moderate	0.34	-1.59	2.27
Safe Drinker (reference)	0.00	.	.

Appendix 9R continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	-4.37	-6.37	-2.38
Ex smoker	-0.82	-2.48	0.85
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	-1.85	-3.65	-0.05
Completed High School	-1.78	-4.29	0.72
Primary School or High School	-1.95	-4.85	0.95
University Degree	-0.13	-2.64	2.38
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	-0.26	-1.93	1.41
No OS exposure (reference)	0.00	.	.

**Appendix 9S : SF-36 Mental Component Summary: Multiple linear regression
where exposed are classified by dose and contrasted to the unexposed**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	48.56	44.40	52.72
EXPOSURE			
Mild exposure	-4.17	-6.40	-1.95
Moderate exposure	-7.92	-10.07	-5.78
Prolonged exposure	-7.59	-9.66	-5.52
Unexposed (reference)	0.00	.	.
AGE CATEGORY			
< 29yrs	7.47	1.63	13.30
30-34yrs	6.02	1.29	10.75
35-39yrs	4.79	0.44	9.13
40-44yrs	4.15	0.14	8.17
45-49yrs	3.70	-0.18	7.57
50-54yrs	0.89	-3.09	4.86
55-59yrs	-0.85	-5.11	3.40
> 60yrs (reference)	0.00	.	.
POSTING CATEGORY			
1980-1984	-0.42	-2.30	1.46
1985-1989	-0.71	-2.84	1.42
1990-1994	-1.03	-3.83	1.78
1995-1999	-2.77	-6.53	0.98
1975-1979 (reference)	0.00	.	.
RANK CATEGORY			
Civilian	-1.17	-6.49	4.14
Non Comm Officer	0.95	-0.81	2.71
Officer	5.29	1.13	9.46
Unknown	-3.37	-9.88	3.14
Enlisted (reference)	0.00	.	.
DRINKER CATEGORY			
Former Hazardous	-5.49	-9.76	-1.22
Hazardous Drinker	-1.78	-3.31	-0.26
Moderate	0.24	-1.54	2.02
Safe Drinker (reference)	0.00	.	.

Appendix 9S continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	-3.04	-4.89	-1.20
Ex smoker	-0.38	-1.91	1.15
Never smoked (reference)	0.00	.	.
EDUCATION			
Certificate/Diploma	-1.45	-3.07	0.17
Completed High School	-1.54	-3.77	0.70
Primary School or High School	-1.28	-3.83	1.27
University Degree	0.03	-2.29	2.36
Trade/Apprentice (reference)	0.00	.	.
OS EXPOSURE			
OS Exposure	0.33	-1.17	1.83
No OS exposure (reference)	0.00	.	.

9.4 PATHOLOGY RESULTS

Appendix 9T : Least squares adjusted means for pathology tests

Dependent and normal ranges		Amberley	Richmond	Exposed	p-value +
ELECTROLYTES					
Bicarbonate 25-33 mmol/L	Mean	30.11	30.22	30.18	0.7304
	% higher than normal	1.8	5.5	4.1	
	% lower than normal	0.3	0.2	0.7	0.6488
Calcium (adjusted) 2.25-2.65 umol/L	Mean	2.36	2.36	2.36	0.3543
	% higher than normal	0.3	0.2	0.2	
	% lower than normal	8.5	7.0	7.0	0.8734
Chloride 96-109 mmol/L	Mean	103.25	103.54	103.49	0.1480
	% higher than normal	1.0	0.8	0.2	
	% lower than normal	0.5	0.0	0.0	0.0516
(Log of) Creatinine 0.06-0.14 mmol/L (male) 0.05-0.11 mmol/L (female)	Mean	0.09	0.09	0.09	0.1444
	% higher than normal	0.5	0.4	0.2	
	% lower than normal	0.3	0.0	0.0	0.4725
(Log of) Potassium * 3.5-5.0 mmol/L	Mean	4.22	4.26	4.22	0.8283
	% higher than normal	2.3	2.5	1.3	
	% lower than normal	0.3	0.2	0.2	0.5640

Normal font p-value = p-value for the general linear model.

Italics font = p-value from the Fishers exact test for the 6x6 contingency table.

Appendix 9T continued...

Dependent and normal ranges		Amberley	Richmond	Exposed	p-value +
(Log of) Urea 3.0-8.5 mmol/L	Mean	5.10	5.21	5.21	0.4850
	% higher than normal	0.5	0.8	1.3	
	% lower than normal	0.5	1.0	0.7	0.6785
Other anions 4-17 mmol/L	Mean	10.30	9.98	10.17	0.1017
	% higher than normal	1.0	0.4	0.5	
	% lower than normal	0.3	0.2	0.0	0.4766
(Reciprocal) Glucose * 3.0-7.7 mmol/L	Mean	5.56	5.56	5.56	0.0752
	% higher than normal	6.6	6.8	6.5	
	% lower than normal	0.0	0.0	0.0	0.9648
Sodium 137-147 mmol/L	Mean	139.49	139.53	139.65	0.5077
	% higher than normal	0.7	0.2	0.2	
	% lower than normal	3.5	4.1	2.6	0.3367
BLOOD PARAMETERS					
Haemoglobin 130-180 g/L (male) 115-165 g/L (female)	Mean	150.85	150.48	150.62	0.8444
	% higher than normal	0.3	0.0	0.3	
	% lower than normal	0.5	0.6	0.7	0.2619
Iron 10-33 umol/L	Mean	17.03	16.53	16.35	0.1318
	% higher than normal	2.0	0.6	0.5	
	% lower than normal	3.5	5.6	5.0	0.0856
(Log of) Lymphocytes 1.1 - 4.0 x10**9/L	Mean	2.03	2.01	2.01	0.9289
	% higher than normal	0.8	0.6	0.2	
	% lower than normal	1.0	1.2	0.7	0.5609
(Log of) Neutrophils 2.0 - 7.5 x10**9/L	Mean	4.14	4.01	4.10	0.4723
	% higher than normal	1.8	2.0	2.5	
	% lower than normal	1.0	1.6	0.8	0.7454

* p-value on transformed variable

Appendix 9T continued...

Dependent and normal ranges		Amberley	Richmond	Exposed	p-value +
(Log of) White cell count 4 - 11 x10**9/L	Mean	6.89	6.75	6.82	0.5274
	% higher than normal	2.3	2.3	2.2	
	% lower than normal	0.8	2.2	1.5	0.5699
Mean cell volume 80-98 fL	Mean	92.40	92.30	92.39	0.9289
	% higher than normal	5.3	2.5	4.1	
	% lower than normal	0.8	0.4	1.0	0.1743
Platelet count ** 150 - 450 x10**9/L	Mean	250.13	239.49	246.41	0.0094
	% higher than normal	0.3	0.4	0.2	
	% lower than normal	0.3	2.0	0.8	0.0863
LIVER FUNCTION TESTS					
Albumin 35-50 g/L	Mean	44.14	44.05	44.03	0.8082
	% higher than normal	1.0	0.8	1.6	
	% lower than normal	0.0	0.2	0.2	0.6365
(Log of) Alanine Aminotransferase (ALT) < 45 U/L	Mean	27.39	26.84	27.39	0.8178
	% higher than normal	24.8	22.8	21.0	
	% lower than normal	0.0	0.0	0.0	0.3639
(Log of) Alkaline phosphatase 30-115 U/L	Mean	69.41	67.36	69.41	0.1768
	% higher than normal	2.8	1.2	2.5	
	% lower than normal	0.0	0.0	0.2	0.1871
(Log of) Direct Bilirubin 0-8 umol/L	Mean	2.20	2.27	2.29	0.5450
	% higher than normal	0.3	0.6	1.0	
	% lower than normal	0.0	0.0	0.0	0.4034

** p-value reflects difference between Richmond and Amberley (Bonferroni multiple comparison of means)

Appendix 9T continued...

Dependent and normal ranges		Amberley	Richmond	Exposed	p-value +
(Log of) Gamma Glutamyl Transferase (GT) <70 U/L (male) <30 U/L (female)	Mean	26.05	26.31	26.05	0.9131
	% higher than normal	9.3	9.0	7.9	
	% lower than normal	0.0	0.0	0.0	0.7135
(Log of) Total Bilirubin 2-20 umol/L	Mean	8.25	8.33	8.33	0.8886
	% higher than normal	5.3	5.1	6.5	
	% lower than normal	0.0	0.0	0.0	0.5833
(Reciprocal) Aspartate Aminotransferase (AST) < 41 U/L	Mean	20.00	25.00	25.00	0.7483
	% higher than normal	9.5	8.4	7.8	
	% lower than normal	0.0	0.0	0.0	0.6050
OTHER					
Cholesterol 3.9-7.4 mmol/L	Mean	5.33	5.35	5.34	0.9712
	% higher than normal	4.0	3.1	2.5	
	% lower than normal	4.0	4.5	4.5	0.7335
Globulins 20-40 g/L	Mean	27.65	27.12	27.37	0.0793
	% higher than normal	0.7	0.2	0.0	
	% lower than normal	0.5	0.4	0.0	0.0337
(Log of) Lactate dehydrogenase (LD) 80-250 U/L	Mean	167.34	164.02	167.34	0.1209
	% higher than normal	1.5	1.2	1.5	
	% lower than normal	0.0	0.2	0.2	0.9696
(Log of) Triglycerides 0.3-4.0 mmol/L	Mean	2.10	2.05	2.10	0.7825
	% higher than normal	13.5	12.3	12.9	
	% lower than normal	0.0	0.0	0.0	0.8491
Total protein 60-82 g/L	Mean	71.79	71.17	71.39	0.0526
	% higher than normal	2.0	0.2	0.5	
	% lower than normal	0.0	0.4	0.2	0.0127

Appendix 9T continued...

Dependent and normal ranges		Amberley	Richmond	Exposed	p-value +
Uric acid 4.3-8.0 mg/dl (males), 2.3-6.0 mg/dl (females)	Mean	0.37	0.37	0.36	0.3180
	% higher than normal	10.0	11.1	8.9	
	% lower than normal	1.5	2.1	3.0	0.4546
Cumulative serum C-reactive protein (CRP) [Odds Ratio] <6 mg/L	Mean	1.04	0.93	1.0	0.8517
	% higher than normal	16.5	14.6	14.1	
	% lower than normal	0.0	0.0	0.0	0.5413

9.5 URINALYSIS RESULTS

Appendix 9U : Urinalysis for protein

	Amberley		Richmond		Exposed	
	N=400	%	N=510	%	N=611	%
Negative result	382	96	486	95	559	92
Trace	14	3.0	15	3.0	33	5.0
1+	2	0.5	5	1.0	12	1.9
2+	2	0.5	3	0.6	4	0.6
3+	0	0	0	0	2	0.3
4+	0	0	1	0.2	1	0.2
1+2+3+4	4	1.0	9	1.8	19	3.1
Fishers exact p-value = 0.0653						

Missing = 17

Appendix 9V : Urinalysis for blood

	Amberley		Richmond		Exposed	
	N=400	%	N=510	%	N=611	%
Negative result	388	97	494	97	587	96
Trace	5	1.3	10	1.9	8	1.3
Small	4	1.0	2	0.4	2	0.3
Moderate	0	0	3	0.6	11	1.8
Large	3	0.7	1	0.2	3	0.5
small+moderate+large	7	1.7	6	1.2	16	2.6
Fishers exact p-value = 0.2064						

Missing = 17

Appendix 9W : Urinalysis for glucose

	Amberley		Richmond		Exposed	
	N=400	%	N=509	%	N=609	%
Negative result	389	97	497	98	599	98
Trace	3	0.8	2	0.4	0	0
1+	3	0.8	1	0.2	5	0.8
2+	2	0.5	3	0.6	1	0.2
3+	0	0	2	0.3	2	0.3
4+	3	0.8	4	0.8	2	0.3
1+2+3+4	8	2.0	10	2.0	10	1.6
Fishers exact p-value = 0.913						

Missing = 20